

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-28 (Canceled).

29. (Currently Amended) A communication device ~~comprising~~having a radio link control (RLC) transparent mode entity, ~~comprising~~wherein the RLC transparent mode entity includes

a transmission buffer ~~receiving~~storing at least one service data unit (SDU) transferred from an upper layer; and

a segmentation module ~~providing at least one protocol data unit based on the at least one service data unit received from the transmission buffer~~, ~~the segmentation module providing the at least one protocol data unit to a lower layer~~ segmenting the at least one service data unit received from the transmission buffer into at least one protocol data unit (PDU) according to size information transferred from a lower layer.

30. (Currently Amended) The communication device of claim 29, wherein ~~the RLC transparent mode entity receives information regarding a number of protocol data units that can be transferred in one transmission time interval~~ the radio link control (RLC) transparent mode entity transfers to the lower layer at least one protocol data unit amounting to a number requested by the lower layer.

31. (Currently Amended) The communication device of claim 30, ~~wherein the information further relates to a protocol data unit size~~ the lower layer is medium access control (MAC) layer.

32. (Currently Amended) The communication device of claim 30 ~~[[or 31]], wherein the information is provided by a MAC-STATUS-Ind primitive from the lower layer, which comprises a media access control (MAC) layer~~ the radio link control (RLC) transparent mode entity receives the size and number information through a MAC-STATUS-Ind primitive from the medium access control (MAC) layer.

33. (Currently Amended) The communication device of claim ~~[[29]]~~ 30, wherein the at least one protocol data unit is ~~provided~~ transferred to the lower layer through a logical channel.

34. (Currently Amended) The communication device of claim 33, wherein the logical channel ~~comprises a dedicated control channel (DCCH) or a dedicated traffic channel (DTCH)~~ is any one of a dedicated control channel (DCCH), a dedicated traffic channel (DTCH), a common control channel (CCCH), a shared common control channel (SHCCH), a broadcast control channel (BCCH), and a paging control channel (PCCH).

Claims 35 - 36 (Canceled).

37. (Currently Amended) The communication device of claim 29 ~~[[or 33]]~~, wherein the transmission buffer receives the at least one service data unit through a transparent mode service access point.

38. (Previously Presented) The communication device of claim 33, wherein the at least one protocol data unit is sent a peer entity of a receiver side.

39. (Previously Presented) The communication device of claim 29, wherein the at least one service data is segmented by the segmentation module depending upon when a service is established.

40. (Currently Amended) The communication device of claim 29 [[or 39]], wherein ~~the at least one service data unit is segmented by the segmentation module depending upon~~ transport an allowable size for the at least one protocol data unit is decided based on transmit formats of a transport channel.

41. (Currently Amended) The communication device of claim 29, wherein the at least one protocol data unit provided by the segmentation module comprises one complete service data unit or segments of one complete service data unit.

42. (Currently Amended) The communication device of claim 29, further comprising:
a receiver buffer for receiving storing at least one protocol data unit received from the lower layer; and

a reassembly module ~~for forming at least one RLC service data unit based on the at least one transparent mode protocol data unit provided by the buffer, the reassembly module providing the at least one RLC service data unit to the upper layer~~ reassembling the at least one protocol data unit received from the receiver buffer into at least one service data unit.

Claims 43-51. (Canceled).

52. (Currently Amended) A ~~method for a transparent mode data transfer by a transparent mode entity~~ data processing method in a wireless communication device having a radio link control (RLC) layer of transparent mode, comprising:

~~receiving~~ storing at least one service data unit (SDU) ~~by a transmission buffer~~
transferred from an upper layer in a transmission buffer;

~~providing at least one protocol data unit based on at least one service data unit of~~
~~the transmission buffer~~ segmenting the at least one service data unit received from the
transmission buffer into at least one protocol data unit (PDU) according to size information
transferred from a lower layer; and

providing the at least one protocol data unit to [[a]] the lower layer.

53. (Currently Amended) The method of claim [[29]] 52, ~~further comprising~~
~~providing information regarding a number of data units that can be transferred in one~~
~~transmission time interval to the transparent mode entity by the lower layer wherein the radio~~
link control (RLC) layer provides to the lower layer protocol data units amounting to a number
requested by the lower layer.

54. (Currently Amended) The method of claim [[30]] 52, wherein ~~the information~~
~~further relates to a protocol data unit size~~ the lower layer is medium access control (MAC) layer.

55. (Currently Amended) The method of claim [[53 or]] 54, wherein ~~the information~~
~~is provided by a MAC-STATUS-Ind primitive from the lower layer, which comprises a media~~
~~access control (MAC) layer~~ the radio link control (RLC) layer receives the size and number
information through a MAC-STATUS-Ind primitive from the medium access control (MAC)
layer.

56. (Previously Presented) The method of claim 52, wherein the at least one protocol
data unit is provided to the lower layer through a logical channel.

57. (Currently Amended) The method of claim 56, wherein the logical channel
~~comprises a dedicated control channel (DCCH) or a dedicated traffic channel (DTCH) is any~~

one of a dedicated control channel (DCCH), a dedicated traffic channel (DTCH), a common control channel (CCCH), a shared common control channel (SHCCH), a broadcast control channel (BCCH), and a paging control channel (PCCH).

Claims 58 -59 (Canceled).

60. (Currently Amended) The method of claim 52 [[or 56]], wherein the transmission buffer receives the at least one service data unit through a transparent mode service access point.

61. (Previously Presented) The method of claim 52, wherein the at least one service data unit of the transmission buffer is segmented by a segmentation module to provide the at least one protocol data unit depending upon when a service is established.

62. (Currently Amended) The method of claim ~~[[61]]~~ 52, wherein ~~the at least one service data unit is segmented by the segmentation module depending upon transport an~~ allowable size for the at least one protocol data unit is decided based on transmit formats of a transport channel.

63. (Previously Presented) The method of claim 52, wherein the at least one protocol data unit provided by the segmentation module comprises one complete service data unit or segments of one complete service data unit.

Claims 64-74. (Canceled).

75. (New) The method of claim 52, wherein the at least one protocol data unit is transferred to the lower layer in each transmission time interval (TTI).

76. (New) The method of claim 75, wherein all protocol data units segmented from a service data unit are transferred to the lower layer in a transmission time interval (TTI).

77. (New) The communication device of claim 30, wherein the radio link control (RLC) transparent mode entity transfers the at least one protocol data unit to the lower layer in each transmission time interval (TTI).

78. (New) The communication device of claim 77, wherein all protocol data units segmented from a service data unit are transferred to the lower layer in a transmission time interval (TTI).